

ABSTRACT

5       The invention provides an exposure apparatus that  
outputs a stable photographic quality image unaffected by  
variations in ambient temperature, by suppressing the  
effects of the temperature variations and achieving  
accurate grayscale reproduction. In the exposure  
apparatus, input grayscale data P4 is converted into  
corrected grayscale data by using a conversion table for  
10       correcting for the nonlinearity of exposure density, and  
grayscale exposure is performed on a photosensitive  
material by controlling exposure conditions in an  
exposure head based on the corrected grayscale data;  
here, the conversion table actually comprises a plurality  
15       of conversion tables one for each designated temperature  
region, and a temperature detector is provided for  
detecting the ambient temperature, with provisions made  
to select an appropriate one of the conversion tables  
under the control of select data in accordance with the  
20       temperature data supplied from the temperature detector.  
The exposure apparatus can thus achieve accurate  
grayscale reproduction and output a stable photographic  
quality image even when the ambient temperature varies.